

GenCore version 5.1.6  
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## SUMMARIES

OM nucleic - protein search, using frame\_plus.n2p model

Run on: August 22, 2003, 14:07:07 ; Search time 104 Seconds

(without alignments)  
4740.430 Million cell updates/sec

Title: US-09-745-506-74

Perfect score: 506

Sequence: 1 GTGATTGTTATCTGTGCT.....TCTGTTACTTAACATTCAA 1553

Scoring table:

OLIGO	
Xgapop 60.0 , Xgapext 60.0	
Ygapop 60.0 , Ygapext 60.0	
Zgapop 6.0 , Zgapext 7.0	
Delop 6.0 , Delext 7.0	

Searched: 1107863 seqs, 158726573 residues

Word size: 1

Total number of hits satisfying chosen parameters: 2062474

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

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Database :

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2: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:\*  
3: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB	ID	Description
1	369	72.9	383	22	AA88085	Human Immune/haema
2	350	69.2	350	22	AA81361	Human AFP protein
3	350	69.2	350	22	AA94573	Human protein sega
4	315	62.3	377	22	AA27744	Human full-length
5	268	53.0	351	22	AA60663	Human gene express
6	211	41.7	247	23	AB80182	Human protein kina
7	102	20.2	110	22	ABG20985	Human liver peptid
8	68	13.4	68	22	ABG52473	Human liver peptid
9	68	13.4	68	22	ABR32385	Peptide #5036 enco
10	68	13.4	68	22	ABR37667	Peptide #5173 enco
11	68	13.4	68	22	AA58285	Human Dralin expres
12	68	13.4	68	22	AA418609	Peptide #5043 enco
13	68	13.4	68	22	AA406178	Peptide #4860 enco
14	49	9.7	79	22	AA021467	Human novel foetal
15	43	8.5	146	22	AAU27916	Human contig polyp
16	38	7.5	70	22	ABG20982	Human novel diagno
17	30	5.9	58	22	AA90790	Human immune/haema
18	25	4.9	74	22	ABG20984	Human novel diagno
19	22	4.4	22	22	ABG20983	Novel human diagno
20	15	3.0	15	23	AB80183	Human protein kina
21	10	2.0	360	22	AA682528	S. epidermidis ope
22	10	2.0	367	23	ABP38833	Staphylococcus epi
23	9	1.8	334	23	ABP66109	Blifidobacterium 10
24	8	1.6	10	22	AA695515	Human complementar
25	8	1.6	52	22	AA65449	Propionibacterium
26	8	1.6	64	22	AAU21906	Human cardiovascular
27	8	1.6	96	23	ABG70062	Human prey protein
28	8	1.6	108	22	AA66453	Propionibacterium
29	8	1.6	108	22	AA692483	C glutamicum prote
30	8	1.6	161	22	AA663960	Propionibacterium
31	8	1.6	179	12	AA410310	Ovary tissue trans
32	8	1.6	218	22	AAU47094	Propionibacterium
33	8	1.6	299	22	AAU24644	Human olfactory re
34	8	1.6	299	22	AA671682	Human olfactory re
35	8	1.6	299	23	ABG76794	Human G-protein co
36	8	1.6	299	23	AAU85264	Human olfactory an
37	8	1.6	299	23	AAU85264	G-coupled olfactor
38	8	1.6	345	23	AAE13351	Human trypsin protei
39	8	1.6	355	23	ABG91505	Purine/pyrimidine
40	8	1.6	355	24	ABP99273	Orthosomycin biosy
41	8	1.6	355	24	ABP76704	Streptomyces Virid
42	8	1.6	367	19	AAW69999	Rodent chemokine r
43	8	1.6	368	19	AAW54371	Human IP-10/Mig re
44	8	1.6	368	21	AAV90614	Human G protein-co
45	8	1.6	368	21	AAV90648	Human mutant G pro

## ALIGNMENTS

RESULT 1  
ID AA88085 standard; Protein: 383 AA.

AC AA88085;  
XX 07-NOV-2001 (first entry)

DE Human immune/haematopoietic antigen SEO ID NO:15678.

XX Human: Immune; haematopoietic; immune/haematopoietic antigen; cancer;  
KM cytostatic; gene therapy; vaccine; metastasis.

XX Homo sapiens.

XX WO200157182-A2.

XX 09-AUG-2001.

XX 17-JAN-2001; 2001WO-US01354.  
PF  
PR 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 07-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 11-JUL-2000; 2000US-0217496.  
PR 14-JUL-2000; 2000US-0218290.  
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PR 14-AUG-2000; 2000US-0224518.  
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PR 14-AUG-2000; 2000US-0225447.  
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PR 14-AUG-2000; 2000US-0225758.  
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PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226681.  
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PR 22-AUG-2000; 2000US-0227182.  
PR 23-AUG-2000; 2000US-0227009.  
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PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
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PR 08-SEP-2000; 2000US-0232080.  
PR 12-SEP-2000; 2000US-0232081.  
PR 12-SEP-2000; 2000US-0231968.  
PR 14-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
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PR 14-SEP-2000; 2000US-0233063.  
PR 14-SEP-2000; 2000US-0233064.  
PR 14-SEP-2000; 2000US-0233065.  
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PR 20-OCT-2000; 2000US-0241826.  
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PR 08-NOV-2000; 2000US-0246610.  
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PR 17-NOV-2000; 2000US-0249218.  
PR 17-NOV-2000; 2000US-0249244.  
PR 17-NOV-2000; 2000US-0249245.  
PR 17-NOV-2000; 2000US-0249264.  
PR 17-NOV-2000; 2000US-0249265.  
PR 17-NOV-2000; 2000US-0249297.  
PR 17-NOV-2000; 2000US-0249299.  
PR 17-NOV-2000; 2000US-0249300.  
PR 01-DEC-2000; 2000US-0250160.  
PR 01-DEC-2000; 2000US-0250391.  
PR 05-DEC-2000; 2000US-0251030.  
PR 05-DEC-2000; 2000US-0251988.  
PR 06-DEC-2000; 2000US-0256719.  
PR 08-DEC-2000; 2000US-0251856.  
PR 08-DEC-2000; 2000US-0251868.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251899.  
PR 08-DEC-2000; 2000US-0251990.  
PR 11-DEC-2000; 2000US-0254907.  
PR 05-JAN-2001; 2001US-0259676.  
  
(HUMA-) HUMAN GENOME SCI INC.  
PA  
XX  
XX  
PI  
XX  
XX  
DR  
Rosen CA, Barash SC, Ruben SM,  
WPI. 2001-483426/52.  
N-PSDB; AAK60866.



PT acid residues of polypeptide with specified amino acids -  
 Claim 1: Page 424-425; 617pp; English.

AAH52093 to AAH52303 encode the human secreted proteins given in ANG81242  
 CC to AAH81453. The secreted proteins can be used for directing the  
 CC secretion of proteins of interest from a host cell including bacteria,  
 CC fungal cells, and cultured higher eukaryotic cells. The present invention  
 CC also describes fusion proteins, where a secreted protein of the invention  
 CC is operably linked via a peptide bond or peptide linker to a second  
 CC protein selected from the group consisting of maltose binding protein,  
 CC an immunoglobulin constant region, a polystyrene tag and a peptide  
 CC given in AAH81453.

XX Sequence 350 AA;

Alignment Scores:

Pred. No.:	0	Length:	350
Score:	350.00	Matches:	350
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Query Match:	69.17%	Indels:	0
DB:	22	Gaps:	0

US-09-745-506-74 (1-1553) x AAH81361 (1-350)

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 QY 305 AGTTGGGACATGTTGGATCTACTGTTGGAACCAACCCACACATCTAATCTACTGCTC 364  
 DB 21 SerTrpAspAsnValGlyLeuLeuValGluProSerProProHisThrValAsnThrLeu 40  
 QY 365 TTCCGTGACCAATGACTGCTGAGAGTGAAGTGAAGAGAGTGTCTCAAAAGAGGACAG 424  
 DB 41 PheLeuThrAsnAspLeuThrGluGluValMetGluGluValLeuGluLysAlaAsp 60  
 QY 425 CTCATCTCTCTTACACATCCGCTTCTTCCGACCCATGAAGCCGATTAACCTGGAACA 484  
 DB 61 LeuIleLeuSerTyrHisProProLeuPheArgPrometLysArgIleThrTrpAsnThr 80  
 QY 485 TGGAAAGAGCGCCGCTGATCCGCGCTGTGGAACAGACAGTCGATCTACTCTCTAT 544  
 DB 81 TrpLysGluArgLeuValIleArgAlaLeuGluAsnArgValGlyIleTyrSerProHis 100  
 QY 545 ACAGGCTTGTATGCTGCGCCCGCAGGCGCTCAACAACATGTTGGCTAAAGGCTTGAGCT 604  
 DB 101 ThrAlaTyrAspAlaAlaProGlnIleValAsnAsnTrpLeuAlaLysGlyLeuGlyAla 120  
 QY 605 TGTACTCTCAGCCCATCATCTTCCAAAGCTCCCACTACCTACAGAGGGAACCCAC 664  
 DB 121 CysTrpSerArgProIleHisProSerLysAlaProAsnTyrProThrGluGluLysHis 140  
 QY 665 CGAGTAGAATTCACAGCTTAACATACACCCAGACCTGGACAAAGTATGTCTGACAGTAA 724  
 DB 141 ArgValGluPheAsnValAsnTyrThrGlnAspLeuAspLysValMetSerAlaValLys 160  
 QY 725 GGAATTCAGCGGTTTCTGTCATCTTCTTCTGATAGACCTGGAAAGAGGAACAACA 784  
 DB 161 GlyIleAspGlyValSerValThrSerPheSerAlaAsnGlnGlyAsnGluGluInThr 180  
 QY 785 CGGATTAATCTGAATTTGACTCAGAAAGCTTTGATGACAGTGTGATTTCTTTCCCGG 844  
 DB 181 ArgIleAsnLeuAsnCysThrGlnLysAlaLeuMetGlnValValAspPheLeuSerArg 200  
 QY 845 AACCAACACATTTATCAGAGACGGAATTTCTGTACTGAGAGAGCCCTTGTCTTACTAT 904  
 DB 201 AsnLysGlnLeuTyrGlnLysThrGlnIleLeuSerLeuGluLysProLeuLeuAsnHis 220  
 QY 905 ACTGAATGGAGCGTTATGCAACCTGATGAATGTGCTCCCGGCAACCATGTTAT 964  
 DB 221 ThrGlyMetGlyArgLeuCysThrLeuAspGluSerValSerLeuAlaThrMetIleAsp 240

QY 965 CGAATAAAGACACCTTAAACATATTCATATTCGCTTAAAGCCCTTGGGGGAGAGAAC 1024  
 DB 241 ArgIleLysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyValGlyArgThr 260  
 QY 1025 TTAGAGCTTCAGTCAAGTCAAGTGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG 1084  
 DB 261 LeuGlnSerGlnValLysValValAlaLeuLysAlaGlySerGlySerValLeuGln 280  
 QY 1085 GGTGTGGAGCTGACCTTATCTTACCTCAGAGTGAATGCCATCATGATCTTGTGATGCT 1144  
 DB 281 GlyValGluAlaAspLeuTyrLeuThrGlyGluMetSerHisHisAspThrLeuAspAla 300  
 QY 1145 GCTTCCCAAGGAATTAATGTATCTCTGTGTGAACACAGCAACACTGAAAGAGGCTTCTT 1204  
 DB 301 AlaSerGlnGlyIleAsnValIleLeuLysGlnHisSerAsnThrGluArgGlyPheLeu 320  
 QY 1205 TCTGACCTTCAGAGTATGCTGATCTGATCTGATCTGATCTGATCTGATCTGATCTGAT 1264  
 DB 321 SerAspLeuAspMetLeuAspSerHisLeuGluAsnLysIleAsnIleLeuSer 340  
 QY 1265 GAGACTGACAGGAGACCTCTTCTGAGGTGTA 1294  
 DB 341 GluThrAspArgAspProLeuGlnValVal 350

RESULT 3  
 AAB94573  
 ID AAB94573 standard; Protein: 350 AA.  
 XX  
 AC AAB94573;  
 XX  
 DT 26-JUN-2001 (first entry)  
 XX  
 DE Human protein sequence SEQ ID NO:15360.  
 XX  
 KW Human; primer: detection; diagnosis; antisense therapy; gene therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 PN EP1074617-A2.  
 XX  
 PD 07-FEB-2001.  
 XX  
 PF 28-JUL-2000; 2000EP-0116126.  
 XX  
 PR 29-JUL-1999; 99JP-0248036.  
 XX  
 PR 27-AUG-1999; 99JP-0300253.  
 PR 11-JAN-2000; 2000JP-0118776.  
 PR 02-MAY-2000; 2000JP-0183767.  
 PR 09-JUN-2000; 2000JP-0241899.  
 XX  
 PA (HELI-) HELIX RES INST.  
 XX  
 PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;  
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
 DR WPI; 2001-318749/34.  
 XX  
 PT primer sets for synthesizing polynucleotides, particularly the 5602  
 PT full-length cDNAs defined in the specification, and for the detection  
 PT and/or diagnosis of the abnormality of the proteins encoded by the  
 PT full-length cDNAs -  
 XX  
 Claim 8: SEQ ID 15360; 2537bp + CD ROM; English.

The present invention describes primer sets for synthesizing 5602  
 full-length cDNAs defined in the specification, where a primer set  
 comprises: (a) an oligo-dT primer and an oligonucleotide complementary  
 to the complementary strand of a polynucleotide which comprises one of  
 the 5602 nucleotide sequences defined in the specification, where the  
 oligonucleotide comprises at least 15 nucleotides; or (b) a combination  
 of an oligonucleotide comprising a sequence complementary to the  
 complementary strand of a polynucleotide which comprises a 5'-end





SQ Sequence 351 AA:

## Alignment Scores:

Pred. No.:	3,566-264	Length:	351
Score:	268.00	Matches:	268
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	22	Gaps:	0

US-09-745-506-74 (1-1553) x ABB0663 (1-351)

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Db 84 GUAArgLeuValIleArgAlaLeuGluAsnArgValGlyLeuSerProHisThrAla 103
QY 551 TATGATGCTGGCGCCCAAGGCGTCAACAACGTGGTGGCTTAAGGCTTGGAGTTACC 610
    |||
Db 104 TYrAspAlaAlaProGlnGlyValAsnAsnTrpLeuAlaGlyLeuGlyAlaCysThr 123
QY 611 TCCAGGCCCATATACCTTCCAAAGCTCCCACTACCTTCAGAGGGAACACCGAGTA 670
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Db 124 SerArgProIleHisProSerLysAlaProAsnTrpProThrGlnGlyAsnHisAlaGVal 143
QY 671 GAATTCACGTTAACTACACACCAAGACCTGGACAAAGTCATGTCTGCAGTGAAGAAATT 730
    |||
Db 144 GluPheAsnValAsnTrpGlnAspLeuAspLysValMetSerAlaValLysGlyIle 163
QY 731 GACGGTGTTCCTGCTACTTCTTCTGCTAGACGTGTAAATAGAACAAACAGGATT 790
    |||
Db 164 AspGlyValSerValThrSerPheSerAlaArgThrGlyAsnGlnGlnGlnThrArgIle 183
QY 791 AATCGAATTTGTACTCAGAAAGCTTTGATGTCAGGTGGTAAATTTCTTCGCGAACA 850
    |||
Db 184 AsnLeuAsnCysThrGlnLysAlaLeuMetGlnValValAspPheLeuSerAlaGlnLys 203
QY 851 CAACCTTTATCAGAAAGCGAAATTTGTCTGCTGAGAAAGCTTGTCTTACATACGTGA 910
    |||
Db 204 GlnLeuTrpGlnLysThrGlnIleLeuSerLeuGlnLysProIleLeuHisIleThrGly 223
QY 911 ATGGGACGGTTATGACACAGTGAATGATGTCCTCCCTGGCAACATGATGATCCAAATA 970
    |||
Db 224 MetGlyArgLeuCysThrLeuAspGlnSerValSerLeuAlaThrMetIleAspArgIle 243
QY 971 AAAAGACACCTAAATATCTCATATTCGCTTACCCTTGGGGTGGGAGAACCTTGTAG 1030
    |||
Db 244 LysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyValGlyArgThrLeuGln 263
QY 1031 TCTCAAGTCAAAGTGTGGCCCTGTGTCTGTGTTCTGGGAGACGCTTCTGCAGGCTGT 1090
    |||
Db 264 SerGlnValLysValAlaAlaLeuCysAlaGlySerGlySerSerValLeuGlnGlyVal 283
QY 1091 GAGCGTACCTTTACTCTCACAGTGAAGTGTCCCATCATATCTTTGGATGCTGCTTCC 1150
    |||
Db 284 GluAlaAspLeuLysLeuThrGlnGlnMetSerHisIleAspThrLeuAspAlaAlaSer 303
QY 1151 CAAGGAATAAATGTCACTCTCTGTGAACACAGCAACAGTGAAGGAGCTTCTTCTGAC 1210
    |||
Db 304 GlnGlyIleAsnValIleLeuCysGlnHisSerHisThrGlnArgGlyPheLeuSerAsp 323
QY 1211 CTTTCGAGATATGCTGATTTCTCACTTGGAGAAATAGATAAATTTATCTTATCAGAGACT 1270
    |||
Db 324 LeuArgAspMetLeuAspSerHisLeuGlnLysAlaIleAsnIleIleLeuSerGlnThr 343
QY 1271 GACAGGAGACCTTTCAGGTGGTA 1294
    |||
Db 344 AspArgAspProLeuGlnValVal 351

```

## RESULT 6

ABB08182 standard; Protein; 247 AA.

AC ABB08182;

```

XX 23-SEP-2002 (first entry)
DT Human protein kinase C 27.17 polypeptide.
DE Human; protein kinase C 27.17; protein metabolism; enzyme.
KW Homo sapiens.
XX CN1333355-A.
XX 30-JAN-2002.
PD 07-JUL-2000; 2000CN-0117049.
PF 07-JUL-2000; 2000CN-0117049.
PR 07-JUL-2000; 2000CN-0117049.
PA (SHAN-) SHANGHAI BIODOOR GENE DEV CO LTD.
XX Mao Y, Xie Y;
PI WPI: 2002-305609/35.
XX N-PDB; ABL60919.
DR Human protein kinase C 27.17 polypeptide and its encoding
XX polynucleotide, for treating e.g. protein metabolism disturbance
PS Claim 1; Page 26-27 (disclosure); 33pp; Chinese.
XX The invention relates to a human protein kinase C 27.17 polypeptide and
XX its encoding polynucleotide. The polypeptide can be expressed by standard
XX DNA recombination. The polynucleotide, polypeptide and its antagonist are
XX useful for treating e.g. protein metabolism disturbance. The present
XX sequence represents the human protein kinase C 27.17 polypeptide.
SQ Sequence 247 AA:
Alignment Scores:
Pred. No.: 5,396-206 Length: 247
Score: 211.00 Matches: 211
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 41.70% Indels: 0
DB: 23 Gaps: 0
US-09-745-506-74 (1-1553) x ABB08182 (1-247)
QY 662 CACCGAGTAGAATTCACAGTTAACTACACCCCAAGACCTGACAAAGTCATGTCTGCAGTG 721
    |||
Db 37 HisArgValGlnPheAsnValAsnTrpThrGlnAspLeuAspLysValMetSerAlaVal 56
QY 722 AAAGGAATTAACGGTGTCTTGTGTCACCTCTTTCTGCTAGAGCTGTATATGAGAACAA 781
    |||
Db 57 LysGlyIleAspLysValSerValThrSerPheSerAlaArgThrGlnGlnGlnGln 76
QY 782 ACACGAGTATATCGAATTTACTACAGAACGCTTGTGACGAGGTGAGATTTTCTTCC 841
    |||
Db 77 ThrArgIleAsnLeuAsnCysThrGlnLysAlaLeuMetGlnValValAspPheLeuSer 96
QY 842 CGGACAAACAACTTATTCAGAAAGCGAAATTTCTGTCACTGAGAGAACCTTGTCTTCTA 901
    |||
Db 97 ArgAsnLysGlnLeuTrpGlnLysThrGlnIleLeuSerLeuGlnLysProLeuLeu 116
QY 902 CATACTGGAATGGAGGCTTATGACACACTGGATGAATCTTCTCCCTGGCAACATGATT 961
    |||
Db 117 HisThrGlyMetGlyArgLeuCysThrLeuAspGlnSerValSerLeuAlaThrMetIle 136
QY 962 GATCGAATAAAGACACCTAAAGTAACTATTCATATTCGCTTACCCCTGGGGGGGAGA 1021
    |||
Db 137 AspArgIleLysArgHisLeuLysLeuSerHisIleArgLeuAlaLeuGlyValGlyArg 156
QY 1022 ACCTTAGAGTCTCAAGTCAAAAGTGTGGCCCTGTGTCTGTGCTGGAGACAGCTTCTG 1081
    |||

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Db 157 ThrleugInserGInVallyValValAlaLeucysAlaGlySerGlySerSerValLeu 176  
Qy 1082 CAGGGTGTGGAGGCTTACCTTACCTCAGAGTGATGCCATTCATGATCTTTGGAT 1141  
Db 177 GlnGlyValGlnAlaAspLeuYrLeuThrGlyGlnMetSerHisHisAspThrLeuAsp 196  
Qy 1142 GCTGCTTCCCAAGGAATTAATGTCATCTCTGTGMAACAACACACACTGACGAGGCTTT 1201  
Db 197 AlaAlaSerGlnGlyIleAsnValIleLeucysGlnHisSerAsnThrGlnArgGlyPhe 216  
Qy 1202 CTTTGTGACCTTCGAGATATGCTGATTCCTACCTTGGAGAAATTAATTAATTCCTA 1261  
Db 217 LeuSerAspLeuArgAspMetLeuAspSerHisLeuGlnAsnLysIleAsnIleLeu 236  
Qy 1262 TCAGAGACTGACAGGAGCCCTCTTCAGTGGA 1294  
Db 237 SerGlnThrAspArgAspProLeuGlnValVal 247  
RESULT 7  
ABG20985 ID ABG20985 standard; Protein; 110 AA.  
AC ABG20985;  
XX  
DT 18-FEB-2002 (first entry)  
DE Novel human diagnostic protein #20976.  
XX  
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;  
KW food supplement; medical imaging; diagnostic; genetic disorder.  
OS Homo sapiens.  
XX  
PN WO200175067-A2.  
XX  
PD 11-OCT-2001.  
XX  
PF 30-MAR-2001; 2001WO-US08631.  
XX  
PR 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX  
PA (HYSE-) HYSEQ INC.  
XX  
PI Drmanac RT, Liu C, Tang YT;  
XX  
DR WPI; 2001-639362/73.  
DR N-PSDB; AAS85172.  
XX  
PT New isolated polynucleotide and encoded polypeptides, useful in  
PT diagnostics, forensic, gene mapping, identification of mutations  
PT responsible for genetic disorders or other traits and to assess  
PT biodiversity -  
XX  
PS Claim 20; SEQ ID No 51344; 103pp; English.  
XX  
CC The invention relates to isolated polynucleotide (I) and  
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
CC and gene mapping, and in recombinant production of (II). The  
CC polynucleotides are also used in diagnostics as expressed sequence tags  
CC for identifying expressed genes. (I) is useful in gene therapy techniques  
CC to restore normal activity of (II) or to treat disease states involving  
CC (II). (II) is useful for generating antibodies against it, detecting or  
CC quantitating a polypeptide in tissue, as molecular weight markers and as  
CC a food supplement. (II) and its binding partners are useful in medical  
CC imaging of sites expressing (II). (I) and (II) are useful for treating  
CC disorders involving aberrant protein expression or biological activity.  
CC The polypeptide and polynucleotide sequences have applications in  
CC diagnostics, forensics, gene mapping, identification of mutations in  
CC responsible for genetic disorders or other traits to assess biodiversity  
CC and to produce other types of data and products dependent on DNA and  
CC amino acid sequences. ABG00010-ABG30377 represent novel human

CC diagnostic amino acid sequences of the invention.  
CC Note: The sequence data for this patent did not appear in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 110 AA;  
Alignment Scores:  
Pred. No.: 1e-94 Length: 110  
Score: 102.00 Matches: 102  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 20.16% Indels: 0  
DB: 22 Gaps: 0  
US-09-745-506-74 (1-1553) x ABG20985 (1-110)  
Qy 764 ACTGGTAATGAGAAACAACACGGATTAATGTAATGTACTGAAAGCCTTGTATGACG 823  
Db 2 ThrGlyAsnGlnGlnGlnThrArgIleAsnLeuAsnGlyThrGlnLysAlaLeuMetGln 21  
Qy 824 GTGGTAGATTTCTTCCCGAACAACAACCTTATCAGAGAGGAAATTTGTCACTG 883  
Db 22 ValValAlaSerPheLeuSerArgAsnLysGlnLeuYrGlnLysThrGlnIleLeuSerLeu 41  
Qy 884 GAGAAACCTTTGCTTTATACATAGTGAATGGAGCGTTATGCACACTGGATGAATCTGTC 943  
Db 42 GlnLysProLeuLeuLeuLeuHisThrGlyMetGlyArgLeuGlySerThrLeuAspGlySerVal 61  
Qy 944 TCCCTGGACACCATGATGATGACGAATTAAGAACACCTTAACATATGTCATTCGCTTA 1003  
Db 62 SerLeuAlaThrMetIleAspArgIleLysArgHisLeuLysLeuSerHisIleArgLeu 81  
Qy 1004 GCCCTTGGGTGGGAGAACCTTAGAGTCAAGTCAAAAGCTGAGCCCTGTGTGCTGT 1063  
Db 82 AlaLeuGlyValGlyArgThrLeuGlnSerGlnValValAlaLeuGlyAlaGly 101  
Qy 1064 TCTGGG 1069  
Db 102 SerGly 103  
RESULT 8  
ABG52473 ID ABG52473 standard; Peptide; 68 AA.  
XX  
AC ABG52473;  
XX  
DT 25-FEB-2003 (first entry)  
DE Human liver peptide, SEQ ID No 31121.  
XX  
KW Human; liver; cirrhosis; hyperlipoproteinaemia; hyperlipidaemia;  
KW hypercholesterolaemia; coronary heart disease.  
OS Homo sapiens.  
XX  
PN WO200157273-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 30-JAN-2001; 2001WO-US00664.  
XX  
PR 04-FEB-2000; 2000US-0180312.  
PR 26-MAY-2000; 2000US-0207456.  
PR 30-JUN-2000; 2000US-0608408.  
PR 03-AUG-2000; 2000US-0632366.  
PR 21-SEP-2000; 2000US-0234687.  
PR 27-SEP-2000; 2000US-0236359.  
PR 04-OCT-2000; 2000GB-0024263.  
XX  
PA (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
PI Penn SG, Hanzel DK, Chen W, Rank DR;



XX WPI; 2001-488898/53.  
XX Human genome-derived single exon nucleic acid probes useful for  
PT analysing gene expression in human adult liver.  
XX  
XX Claim 27; SEQ ID NO 31121; 658bp; English.  
XX  
CC The invention relates to a single exon nucleic acid probe (SENP) (I) for  
CC measuring human gene expression in a sample derived from human adult  
CC liver, comprising one of 13109 defined nucleotide sequences given in the  
CC specification (or complements/fragments). The probe hybridises at high  
CC stringency to a nucleic acid molecule expressed in the human adult  
CC liver. (I) may be used for predicting, measuring and displaying gene  
CC expression in samples derived from human adult liver. The genes  
CC identified may be involved in genetic liver diseases such as cirrhosis,  
CC hypeliproteinaemia, hyperlipidaemia and hypercholesterolaemia which  
CC is associated with coronary heart disease. Abc47348-ABG59930 represent  
CC human liver single exon encoded peptides of the invention.  
CC Note: The sequence information for this patent does not appear in the  
CC printed specification but was obtained in electronic format directly  
CC from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).  
XX  
SQ Sequence 68 AA;  
Alignment Scores:  
Pred. No.: 5, 29e-60 Length: 68  
Score: 68.00 Matches: 68  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.44% Indels: 0  
DB: 22 Gaps: 0  
US-09-745-506-74 (1-1553) x ABG52473 (1-68)  
QY 395 ATGGAGAGGTGCTGCAAAAGAGGAGCACTATCTCTCCATCCATCCGCTATCTTC 454  
DB 1 MerglUGluValleuGlnLysAlaAspLeuIleuSerYrHISPropIlePhe 20  
QY 455 CGACCATGTAAGGCGATTAACCTGGAACACATGGAAGAGGCGCTGGATCCGGCTCTG 514  
DB 21 ArgProMetLysArgIleThrTrpAsnTrpTrpLysGluArgLeuValIleArgAlaLeu 40  
QY 515 GAGACAGAGTGGTATCTACTCTCCATACAGAGCTATGATGCTGGCCGAGGGGCTC 574  
DB 41 GluAsnArgValGlyIleTyrSerProHisThrAlaTyrAspAlaProGlnGlyVal 60  
QY 575 AACCACTGGTGGCTAAAGGCTT 598  
DB 61 AsnAsnTrpLeuAlaLysGlyLeu 68  
RESULT 9  
ABR32385  
ID ABR32385 standard; Peptide: 68 AA.  
XX ABR32385;  
XX  
DT 01-FEB-2002 (first entry)  
XX  
DE Peptide #5036 encoded by breast cell single exon nucleic acid probe.  
XX  
XX Human: microarray; single exon probe; gene expression; breast;  
KM disease; cancer.  
XX  
XX Homo sapiens.  
XX  
XX W0200157271-A2.  
XX  
XX  
XX 09-AUG-2001.  
XX  
XX 30-JAN-2001; 2001MO-US00662.  
XX  
XX 04-FEB-2000; 2000US-0180312.  
XX

PR 26-MAY-2000; 2000US-0207456.  
PR 30-JUN-2000; 2000US-0608408.  
PR 03-AUG-2000; 2000US-0632366.  
PR 21-SEP-2000; 2000US-0234687.  
PR 27-SEP-2000; 2000US-0236359.  
PR 04-OCT-2000; 2000GB-0024263.  
XX  
XX (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
XX Penn SG, Hanzel DK, Chen W, Rank DR;  
XX  
XX WPI; 2001-486933/54.  
XX  
XX New spatially-addressable set of single exon nucleic acid probes,  
XX useful for measuring gene expression in sample derived from human  
XX breast, comprises number of single exon nucleic acid probes -  
XX  
XX Claim 27; SEQ ID NO 15353; 327pp + sequence listing; English.  
XX  
XX The invention relates to a spatially-addressable set of single exon  
XX nucleic acid probes for measuring gene expression in a sample derived  
XX from human breast and BT 474 cells. The method involves contacting  
XX the probes with a collection of detectably labelled nucleic acids  
XX derived from mRNA of human breast, and then measuring the label  
XX bound to each probe of the microarray. The probes are useful for  
XX verifying the expression of regions of genomic DNA predicted to  
XX encode proteins. They are useful for gene discovery, and for  
XX determining predisposition and/or prognosing breast disease. Gene  
XX expression analysis is useful for assessing the toxicity of chemical  
XX agents on cells. The microarray of this invention presents a far greater  
XX diversity of probes for measuring gene expression, with far less bias  
XX than expressed sequence tag microarrays. The method is suitable for  
XX rapid production of functional information from genomic sequence. The  
XX present sequence is a peptide encoded by a single exon nucleic acid  
XX probe of the invention.  
XX Note: The sequence data for this patent did not form part of the  
XX printed specification, but was obtained in electronic format directly  
XX from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).  
XX  
SQ Sequence 68 AA;  
Alignment Scores:  
Pred. No.: 5, 29e-60 Length: 68  
Score: 68.00 Matches: 68  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.44% Indels: 0  
DB: 22 Gaps: 0  
US-09-745-506-74 (1-1553) x ABR32385 (1-68)  
QY 395 ATGGAGAGGTGCTGCAAAAGAGGAGCACTATCTCTCCATCCATCCGCTATCTTC 454  
DB 1 MerglUGluValleuGlnLysAlaAspLeuIleuSerYrHISPropIlePhe 20  
QY 455 CGACCATGTAAGGCGATTAACCTGGAACACATGGAAGAGGCGCTGGATCCGGCTCTG 514  
DB 21 ArgProMetLysArgIleThrTrpAsnTrpTrpLysGluArgLeuValIleArgAlaLeu 40  
QY 515 GAGACAGAGTGGTATCTACTCTCCATACAGAGCTATGATGCTGGCCGAGGGGCTC 574  
DB 41 GluAsnArgValGlyIleTyrSerProHisThrAlaTyrAspAlaProGlnGlyVal 60  
QY 575 AACCACTGGTGGCTAAAGGCTT 598  
DB 61 AsnAsnTrpLeuAlaLysGlyLeu 68  
RESULT 10  
ABR37667  
ID ABR37667 standard; Peptide: 68 AA.  
XX ABR37667;  
XX

DT 04-FEB-2002 (first entry)  
XX  
XX Peptide #5173 encoded by human foetal liver single exon probe.  
XX  
XX Human; foetal liver; gene expression; single exon nucleic acid probe.  
XX  
OS Homo sapiens.  
XX  
XX MO200157277-A2.  
XX  
XX 09-AUG-2001.  
XX  
XX 30-JAN-2001; 2001WO-US00669.  
XX  
XX 04-FEB-2000; 2000US-0180312.  
XX 26-MAY-2000; 2000US-0207456.  
XX 30-JUN-2000; 2000US-0608408.  
XX 03-AUG-2000; 2000US-0632366.  
XX 21-SEP-2000; 2000US-0234687.  
XX 27-SEP-2000; 2000US-0236359.  
XX 04-OCT-2000; 2000GB-0024263.  
XX  
XX (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
XX Penn SG, Hanzel DK, Chen W, Rank DR;  
XX  
XX WPI; 2001-483447/52.  
XX  
XX Human genome-derived single exon nucleic acid probes useful for  
PT analyzing gene expression in human fetal liver -  
XX  
XX  
XX Claim 27; SEQ ID NO 30302; 639pp + sequence listing; English.  
XX  
XX The invention relates to a single exon nucleic acid probe for  
CC measuring human gene expression in a sample derived from human foetal  
CC liver. The single exon nucleic acid probes may be used for predicting,  
CC measuring and displaying gene expression in samples derived from human  
CC fetal liver. The present sequence is a peptide encoded by a single exon  
CC nucleic acid probe of the invention.  
CC Note: The sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX  
SQ Sequence 68 AA:  
  
Alignment Scores:  
Pred. No.: 5,29e-60 Length: 68  
Score: 68.00 Matches: 68  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.44% Indels: 0  
DB: 22 Gaps: 0  
  
US-09-745-506-74 (1-1553) x ABB37667 (1-68)  
QY 395 ATGGAGAGGTGCTGCAAAAGAGCAGCCTATTCTCTACCATCGGCTATCTTC 454  
DB 1 MetGluGluValLeuGlnLysLysAlaSplLeuIleuSerTyrHisProProlIePhe 20  
QY 455 CGACCATGAAGCGCATACCTGGAACACATGGAAGAGCGCGCTGATCCGGGCTGTC 514  
DB 21 ArgProMetLysArgIleThrTyrPasnThrTrpLysGluArgLeuValIleArgAlaLeu 40  
QY 515 GAGAACAAGTGGGTATCTACTCTCTCATACAGCCTATGATGCTGCGCCCGAGGCGCTC 574  
DB 41 GluAsnArgValAlaGlyIleTyrSerProHisThrAlaTyrAspAlaAlaProGlnIleVal 60  
QY 575 AACACACTGGTGGCTAAAGGCTT 598  
DB 61 AsnAsnTrpLeuAlaLysGlyLeu 68  
  
RESULT 11  
AAM58295

ID AAM58295 standard; Protein: 68 AA.  
XX  
XX  
XX AAM58295;  
XX  
XX 05-NOV-2001 (first entry)  
XX  
XX Human brain expressed single exon probe encoded protein SEQ ID NO: 30400.  
XX  
XX  
XX Human; brain expressed exon; gene expression analysis; probe;  
KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;  
KW epilepsy; cancer.  
XX  
XX Homo sapiens.  
XX  
XX MO200157275-A2.  
XX  
XX 09-AUG-2001.  
XX  
XX 30-JAN-2001; 2001WO-US00667.  
XX  
XX 04-FEB-2000; 2000US-0180312.  
XX 26-MAY-2000; 2000US-0207456.  
XX 30-JUN-2000; 2000US-0608408.  
XX 03-AUG-2000; 2000US-0632366.  
XX 21-SEP-2000; 2000US-0234687.  
XX 27-SEP-2000; 2000US-0236359.  
XX 04-OCT-2000; 2000GB-0024263.  
XX  
XX (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
XX Penn SG, Hanzel DK, Chen W, Rank DR;  
XX  
XX WPI; 2001-483446/52.  
XX  
XX Single exon nucleic acid probes for analyzing gene expression in human  
PT brains -  
XX  
XX Example 4; SEQ ID NO: 30400; 650pp + Sequence Listing; English.  
XX  
XX The present invention provides a number of single exon nucleic acid  
CC probes which are derived from genomic sequences expressed in the human  
CC brain. They can be used to measure gene expression in brain cell samples,  
CC which may enable the diagnosis and improved treatment of nervous system  
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,  
CC epilepsy and cancers. The present sequence is a protein encoded by one of  
CC the probes of the invention.  
XX  
XX  
SQ Sequence 68 AA:  
  
Alignment Scores:  
Pred. No.: 5,29e-60 Length: 68  
Score: 68.00 Matches: 68  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13.44% Indels: 0  
DB: 22 Gaps: 0  
  
US-09-745-506-74 (1-1553) x AAM58295 (1-68)  
QY 395 ATGGAGAGGTGCTGCAAAAGAGCAGCCTATTCTCTACCATCGGCTATCTTC 454  
DB 1 MetGluGluValLeuGlnLysLysAlaSplLeuIleuSerTyrHisProProlIePhe 20  
QY 455 CGACCATGAAGCGCATACCTGGAACACATGGAAGAGCGCGCTGATCCGGGCTGTC 514  
DB 21 ArgProMetLysArgIleThrTyrPasnThrTrpLysGluArgLeuValIleArgAlaLeu 40  
QY 515 GAGAACAAGTGGGTATCTACTCTCTCATACAGCCTATGATGCTGCGCCCGAGGCGCTC 574  
DB 41 GluAsnArgValAlaGlyIleTyrSerProHisThrAlaTyrAspAlaAlaProGlnIleVal 60  
QY 575 AACACACTGGTGGCTAAAGGCTT 598  
DB 61 AsnAsnTrpLeuAlaLysGlyLeu 68  
  
RESULT 11  
AAM58295

Db 61 AsnAsnTrpLeuAlaLysGlyLeu 68

RESULT 12  
AAM18609  
ID AAM18609 standard; Protein: 68 AA.  
XX  
AC AAM18609;  
XX  
DT 12-OCT-2001 (first entry)  
XX  
DE Peptide #5043 encoded by probe for measuring cervical gene expression.  
XX  
KW Probe: human; microarray; gene expression; cervical epithelial cell;  
XX  
OS Homo sapiens.  
XX  
PN WO200157278-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 30-JAN-2001; 2001MO-US00670.  
XX  
PR 04-FEB-2000; 2000US-0180312.  
PR 26-MAY-2000; 2000US-0207456.  
PR 30-JUN-2000; 2000US-0608408.  
PR 03-AUG-2000; 2000US-0632366.  
PR 21-SEP-2000; 2000US-0234687.  
PR 27-SEP-2000; 2000US-0236359.  
PR 04-OCT-2000; 2000GB-0024263.  
XX  
XX  
PA (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
PI Penn SG, Hanzel DK, Chen W, Rank DR;  
XX  
DR WPI; 2001-488901/53.  
XX  
PT Human genome-derived single exon nucleic acid probes useful for  
XX analyzing gene expression in human cervical epithelial cells -  
XX  
PS Claim 27; SEQ ID NO 23435; 487pp; English.  
XX  
XX The present invention relates to human single exon nucleic acid probes  
CC (SEN; see AAI10068-AA128459). The present sequence is a peptide encoded  
CC by one such probe. The SENs are derived from human HeLa cells. The SENs  
CC can be used to produce a single exon microarray, which can be used for  
CC measuring human gene expression in a sample derived from human cervical  
CC epithelial cells. By measuring gene expression, the probes are therefore  
CC useful in grading and/or staging of diseases of the cervix, notably  
CC cervical cancer.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 68 AA;  
XX

Alignment Scores:  
Pred. No.: 5,29e-60 Length: 68  
Score: 68.00 Matches: 68  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13,44% Indels: 0  
DB: 22 Gaps: 0

US-09-745-506-74 (1-1553) x AAM18609 (1-68)

OY 395 ATGAGAGAGTCTGCAAGAGAGAGACCTATTCCTCCTACCATCCGCTATCTTC 454  
Db 1 MergLUGlUvAlleuGlnLysLysAlaApleuIlleuSerTrhISpROpOlllePhe 20  
OY 455 CGACCATGAGGCGCATACCTGGAACACATGTGAGAGAGCGCTGTGATCCGGGCTCTG 514  
Db 21 AtgPrOmetLysArgIleThrTrpAsnThrTrpLysGlnuArgLeuValIleArgAlaLeu 40

OY 515 GAGAACAGACTCGGTATCTACTCTCCATACAGACCTATGATGCTGCCCCAGAGCGCTC 574  
Db 41 GluAsnArgValGlyIleTrpSerProHisThrAlaTrpAspAlaIleArgGlnGlyVal 60  
OY 575 AACACTGTTGGCTAAAGGCGTT 598  
Db 61 AsnAsnTrpLeuAlaLysGlyLeu 68

RESULT 13  
AAM06178  
ID AAM06178 standard; Protein: 68 AA.  
XX  
AC AAM06178;  
XX  
DT 09-OCT-2001 (first entry)  
XX  
DE Peptide #4860 encoded by probe for measuring breast gene expression.  
XX  
KW Probe: human; breast disease; breast cancer; development disorder;  
XX Inflammatory disease; proliferative breast disease; non-carcinoma tumour.  
XX  
OS Homo sapiens.  
XX  
PN WO200157270-A2.  
XX  
PD 09-AUG-2001.  
XX  
PF 29-JAN-2001; 2001MO-US00661.  
XX  
PR 04-FEB-2000; 2000US-0180312.  
PR 26-MAY-2000; 2000US-0207456.  
PR 30-JUN-2000; 2000US-0608408.  
PR 03-AUG-2000; 2000US-0632366.  
PR 21-SEP-2000; 2000US-0234687.  
PR 27-SEP-2000; 2000US-0236359.  
PR 04-OCT-2000; 2000GB-0024263.  
XX  
XX  
PA (MOLE-) MOLECULAR DYNAMICS INC.  
XX  
PI Penn SG, Hanzel DK, Chen W, Rank DR;  
XX  
DR WPI; 2001-476286/51.  
XX  
PT Novel single exon nucleic acid probe used to measuring gene expression  
XX in a human breast -  
XX  
PS Claim 27; SEQ ID NO 14918; 322pp; English.  
XX  
XX The present invention relates to novel single exon nucleic acid probes  
CC (see AAI00010-AA110067). The present sequence is a peptide encoded by one  
CC such probe. The probes are useful for measuring human gene expression in  
CC a human breast sample, where the probe hybridises at high stringency to a  
CC nucleic acid expressed in the human breast. The probes are useful for  
CC predicting, diagnosing, grading, staging, monitoring and prognosing  
CC diseases of the human breast, particularly those diseases with polygenic  
CC aetiology. The diseases include: breast cancer, disorders of development,  
CC inflammatory diseases of the breast, fibrocystic changes, proliferative  
CC breast disease and non-carcinoma tumours.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 68 AA;  
XX

Alignment Scores:  
Pred. No.: 5,29e-60 Length: 68  
Score: 68.00 Matches: 68  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 13,44% Indels: 0  
DB: 22 Gaps: 0

US-09-745-506-74 (1-1553) x AAM06178 (1-68)

OY 395 ATGGAGGAGTGTGCAAAAGAGCAGACCTCATTCCTCTACCATCGGCTATCTC 454  
|||||  
Db 1 MetGluGluValIleGlnIleLysAlaIleAspIleLeuSerTyrHisProIleIleHe 20  
OY 455 CGACCCATGAAGCGCATTAACCTGGAAACATGGAAGAGCGCCGTGTATCGGGCTGTG 514  
|||||  
Db 21 ArgProMetLysArgIleThrTyrPasnThrTrpLysGluArgLeuValIleArgIleLeu 40  
OY 515 GAGAAACAGTGGCATCTACTCTCCATACAGCCTTGATGCTGGCCGCCAGGCGCTC 574  
|||||  
Db 41 GluAsnArgValIleGlyIleTyrSerProHisThrAlaTyrAspAlaAlaProGlnIleVal 60  
OY 575 AACACTGTGTGGCTAAGGCTT 598  
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Db 61 AsnAsnTrpLeuAlaIleLysGlyLeu 68

RESULT 14  
AAU21467  
ID AAU21467 standard; Protein: 79 AA.  
XX  
AC AAU21467;  
XX  
DT 18-DEC-2001 (first entry)  
XX  
DE Human novel foetal antigen; SEQ ID NO 1711.  
XX  
KW Human; foetal tissue antigen; antiinflammatory; neuroprotective;  
KW Immunomodulator; cardiovascular; cytosolic; nephrothropic;  
KW Cardiovascular; autoimmune disease; rheumatoid arthritis;  
KW hyperproliferative disorder; breast neoplasm; cancer;  
KW cardiovascular disorder; cardiac arrest; cerebrovascular disorder;  
KW cerebral ischemia; angiogenesis; nervous system disorder;  
KW Alzheimer's disease; infection; ocular disorder; corneal infection;  
KW wound healing; epithelial cell proliferation; food additive.  
XX  
OS Homo sapiens.  
XX  
PN MO20015312-AZ.  
XX  
PD 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US01321.  
XX  
PR 31-JAN-2000; 2000US-0179065.  
PR 04-FEB-2000; 2000US-0180628.  
PR 24-FEB-2000; 2000US-0184664.  
PR 02-MAR-2000; 2000US-0186350.  
PR 16-MAR-2000; 2000US-0189874.  
PR 17-MAR-2000; 2000US-0190076.  
PR 18-APR-2000; 2000US-0198123.  
PR 19-MAY-2000; 2000US-0205515.  
PR 07-JUN-2000; 2000US-0209467.  
PR 28-JUN-2000; 2000US-0214886.  
PR 30-JUN-2000; 2000US-0215135.  
PR 07-JUL-2000; 2000US-0216647.  
PR 07-JUL-2000; 2000US-0216880.  
PR 11-JUL-2000; 2000US-0217487.  
PR 11-JUL-2000; 2000US-0217496.  
PR 14-JUL-2000; 2000US-0218290.  
PR 26-JUL-2000; 2000US-0220963.  
PR 26-JUL-2000; 2000US-0220964.  
PR 14-AUG-2000; 2000US-0224518.  
PR 14-AUG-2000; 2000US-0224519.  
PR 14-AUG-2000; 2000US-0225213.  
PR 14-AUG-2000; 2000US-0225214.  
PR 14-AUG-2000; 2000US-0225266.  
PR 14-AUG-2000; 2000US-0225267.  
PR 14-AUG-2000; 2000US-0225268.  
PR 14-AUG-2000; 2000US-0225270.  
PR 14-AUG-2000; 2000US-0225447.  
PR 14-AUG-2000; 2000US-0225757.

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PR 14-AUG-2000; 2000US-0225759.  
PR 18-AUG-2000; 2000US-0226279.  
PR 22-AUG-2000; 2000US-0226681.  
PR 22-AUG-2000; 2000US-0226686.  
PR 22-AUG-2000; 2000US-0227182.  
PR 23-AUG-2000; 2000US-0227009.  
PR 30-AUG-2000; 2000US-0228924.  
PR 01-SEP-2000; 2000US-0229287.  
PR 01-SEP-2000; 2000US-0229343.  
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PR 05-SEP-2000; 2000US-0229513.  
PR 06-SEP-2000; 2000US-0230437.  
PR 06-SEP-2000; 2000US-0230438.  
PR 08-SEP-2000; 2000US-0231242.  
PR 08-SEP-2000; 2000US-0231243.  
PR 08-SEP-2000; 2000US-0231244.  
PR 08-SEP-2000; 2000US-0231413.  
PR 08-SEP-2000; 2000US-0231414.  
PR 08-SEP-2000; 2000US-0232080.  
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PR 12-SEP-2000; 2000US-0231968.  
PR 14-SEP-2000; 2000US-0232397.  
PR 14-SEP-2000; 2000US-0232398.  
PR 14-SEP-2000; 2000US-0232399.  
PR 14-SEP-2000; 2000US-0232400.  
PR 14-SEP-2000; 2000US-0232401.  
PR 14-SEP-2000; 2000US-0233063.  
PR 14-SEP-2000; 2000US-0233064.  
PR 14-SEP-2000; 2000US-0233065.  
PR 21-SEP-2000; 2000US-0234223.  
PR 21-SEP-2000; 2000US-0234274.  
PR 25-SEP-2000; 2000US-0234997.  
PR 25-SEP-2000; 2000US-0234998.  
PR 26-SEP-2000; 2000US-0235484.  
PR 27-SEP-2000; 2000US-0235834.  
PR 27-SEP-2000; 2000US-0235836.  
PR 29-SEP-2000; 2000US-0236327.  
PR 29-SEP-2000; 2000US-0236367.  
PR 29-SEP-2000; 2000US-0236368.  
PR 29-SEP-2000; 2000US-0236369.  
PR 29-SEP-2000; 2000US-0236370.  
PR 02-OCT-2000; 2000US-0236802.  
PR 02-OCT-2000; 2000US-0237037.  
PR 02-OCT-2000; 2000US-0237038.  
PR 02-OCT-2000; 2000US-0237039.  
PR 02-OCT-2000; 2000US-0237040.  
PR 13-OCT-2000; 2000US-0239935.  
PR 13-OCT-2000; 2000US-0239937.  
PR 20-OCT-2000; 2000US-0240960.  
PR 20-OCT-2000; 2000US-0241221.  
PR 20-OCT-2000; 2000US-0241785.  
PR 20-OCT-2000; 2000US-0241786.  
PR 20-OCT-2000; 2000US-0241787.  
PR 20-OCT-2000; 2000US-0241808.  
PR 20-OCT-2000; 2000US-0241809.  
PR 01-NOV-2000; 2000US-0244826.  
PR 01-NOV-2000; 2000US-0244617.  
PR 08-NOV-2000; 2000US-0246474.  
PR 08-NOV-2000; 2000US-0246475.  
PR 08-NOV-2000; 2000US-0246476.  
PR 08-NOV-2000; 2000US-0246477.  
PR 08-NOV-2000; 2000US-0246478.  
PR 08-NOV-2000; 2000US-0246523.  
PR 08-NOV-2000; 2000US-0246524.  
PR 08-NOV-2000; 2000US-0246525.  
PR 08-NOV-2000; 2000US-0246526.  
PR 08-NOV-2000; 2000US-0246527.  
PR 08-NOV-2000; 2000US-0246528.  
PR 08-NOV-2000; 2000US-0246532.  
PR 08-NOV-2000; 2000US-0246609.

PR 08-NOV-2000; 2000US-0246610.  
 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
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 PR 17-NOV-2000; 2000US-0249244.  
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 PR 17-NOV-2000; 2000US-0249264.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
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 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0250160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0259678.  
 (HUMA-) HUMAN GENOME SCI INC.  
 PA Rosen CA, Barash SC, Ruben SM;  
 PI  
 XX  
 XX  
 PI WPI: 2001-488782/53.  
 DR N-PSDB; AAS34287.  
 XX  
 XX  
 PT New polynucleotides and polypeptides for diagnosing, treating,  
 PT preventing or prognosing e.g. diseases or disorders of the nervous,  
 PT musculoskeletal, excretory, gastrointestinal, reproductive, and  
 PT respiratory systems -  
 XX  
 PS Claim 11; SEQ ID No 1711; 642bp; English.  
 XX  
 XX  
 CC The invention relates to novel nucleic acids encoding nove; human foetal  
 CC antigens. The nucleic acids and proteins are used to prevent, treat (e.g.  
 CC by gene therapy) or ameliorate a medical condition in e.g. humans, mice,  
 CC rabbits, goats, horses, cats, dogs, chickens or sheep. They  
 CC are also used in diagnosing a pathological condition or susceptibility  
 CC to a pathological condition. The antibodies to the antigens can also  
 CC be used in alleviating symptoms associated with the disorders and in  
 CC diagnostic immunoassays e.g. radioimmunoassays or enzyme linked  
 CC immunoassort assays (ELISA). Disorders which are diagnosed or treated  
 CC include autoimmune diseases e.g. rheumatoid arthritis,  
 CC hyperproliferative disorders e.g. neoplasms of the breast or liver,  
 CC cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders  
 CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g.  
 CC Alzheimer's disease, infections caused by bacteria, viruses and fungi  
 CC and ocular disorders e.g. corneal infection. The polypeptides can also  
 CC be used to aid wound healing and epithelial cell proliferation, to  
 CC prevent skin aging due to sunburn, to maintain organs before  
 CC transplantation, for supporting cell culture of primary tissues, to  
 CC regenerate tissues and in chemotaxis. The polypeptides can also be used  
 CC as a food additive or preservative to increase or decrease storage  
 CC capabilities, fat content, lipid, protein, carbohydrate, vitamins,  
 CC minerals, cofactors and other nutritional components. Numerous  
 CC examples of diseases and disorders treated by the nucleic acids and

CC proteins are given in the specification. The present sequence

Alignment Scores:

Pred. No.:	1.25e-40	Length:	79
Score:	49.00	Matches:	49
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	9.68%	Indels:	0
DB:	22	Gaps:	0

US-09-745-506-74 (1-1553) x AAU21467 (1-79)

OY 596 CTTGAGCTGTACCTCCAGCCATCATCTTCCAAAGCTCCCACTACCTACAG 655  
 |||  
 DB 15 LenglYAlacysHrSeraGProIleHisProSerYsAlaProAsnTYrProThGlu 34  
 |||  
 OY 656 GGAACCCAGGATGATTAATTCACGTTACTACACCCAGACCTGGACAAATCANGTCT 715  
 |||  
 DB 35 GlyAsnHisArgValGluPheAsnValAsnTYrThrGlnAspLeuAspLysValMetSer 54  
 |||  
 OY 716 GCAGTGAAGAAATTCGCGCTTCT 742  
 |||  
 DB 55 AlavAlsglyIleAspGlyValSer 63  
 |||

RESULT 15  
 AAU27916  
 ID AAU27916 standard; Protein: 146 AA.  
 AC AAU27916;  
 XX  
 XX  
 DT 18-DEC-2001 (first entry)  
 XX  
 XX  
 DE Human contig polypeptide sequence #69.  
 XX  
 XX Mammal; human; rhesus monkey; baker's yeast; fission yeast; Norway rat;  
 KW mouse; Chinese hamster; African clawed frog; fruit fly; dog; leukemia;  
 KW cancer; lymphoma; neuroblastoma; autoimmune disorder; cell proliferation;  
 KW nervous system disorder; inflammatory disorder; cell differentiation; burn;  
 KW angiogenesis; stem cell growth factor; activin; inhibin; cartilage; bone;  
 KW genetic disorder; bone regeneration; tendon; ligament; tissue repair;  
 KW cytosolic; antirheumatic; antiarthritic; vulnerable; antiinflammatory;  
 KW antibacterial; immunosuppressive; vasotropic; antiparkinsonian;  
 KW neuroprotective; osteopathic; antidiabetic; antistimatic; antiallergic;  
 KW immunostimulant; analgesic; gene therapy.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 OS  
 PN WC200164834-A2.  
 XX  
 XX  
 PD 07-SEP-2001.  
 XX  
 XX 26-FEB-2001; 2001WO-US04926.  
 XX  
 XX 28-FEB-2000; 2000US-0515126.  
 PR 18-MAY-2000; 2000US-0577409.  
 PR 17-JUN-2000; 2000US-0597707.  
 PR 14-JUL-2000; 2000US-0616807.  
 PR 19-SEP-2000; 2000US-0664641.  
 XX  
 XX (HYSE-) HYSED INC.  
 PA  
 XX  
 PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;  
 PI Xue AJ, Yang Y, Wehrman T, Wang J, Ma Y, Wang D, Chen R, Xu C;  
 PI Dmanac R;  
 DR  
 DR WPI: 2001-589862/66.  
 DR N-PSDB; AAS44816.  
 XX  
 XX Novel polypeptides and nucleic acids obtained from cDNA libraries  
 PT prepared from various human tissues, for diagnosis, treatment of  
 PT cancer, neurological, inflammatory disorders and for use in arrays for  
 PT detection -

XX Claim 10; Page 132; 153pp; English.

PS Sequences AAU27676-AAU28019 represent full-length polypeptides and  
XX contig polypeptides of the invention. The proteins and their associated  
CC DNA sequences are useful for the treatment, diagnosis and prevention of  
CC various types of disorder in a mammalian subject such as a human, dog,  
CC monkey, mouse, hamster or rat. The disorders include cancers such as  
CC leukemia, lymphoma and neuroblastoma, autoimmune disorders such as  
CC multiple sclerosis, connective tissue disease, rheumatoid arthritis,  
CC diabetes mellitus, allergic rhinitis, asthma and eczema, nervous system  
CC disorders such as Parkinson's disease, Alzheimer's disease, Huntington's  
CC chorea, amyotrophic lateral sclerosis, spinal muscular atrophy and  
CC Wernicke disease, inflammatory disorders such as nephritis, Crohn's  
CC disease, ischemia-reperfusion injury, shock, sepsis and inflammatory  
CC bowel disease. The sequences exhibit activity relating to angiogenesis,  
CC cell proliferation, cell differentiation, stem cell growth factor,  
CC activin or inhibin. Therefore, they can be used to manipulate stem cells  
CC in culture to give rise to neuroepithelial cells that can be used to  
CC augment or replace cells damaged by illness, accidental damage or genetic  
CC disorders. The sequences may also be used for regeneration of bone,  
CC cartilage, tendons and ligaments and in tissue repair and burn healing.  
CC Note: Some sequences for this patent did not form part of the printed  
CC specification, but were obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences.

SQ Sequence 146 AA:

Alignment Scores:

Pred. No.:	1.5e-34	Length:	146
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Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	8.50%	Indels:	0
DB:	22	Gaps:	0

US-09-745-506-74 (1-1553) x AAU27916 (1-146)

OY	257	GCTCTCCTTTCCTTGAATGACTTTCATCCCTGCTTGTGAGAGTTGGACAAT	316
DB	36	AlaIleuSerSerLeuAsnSphelaSerLeuSerPheAlaGluSerTrpAspAsn	55
OY	317	GTGGATTACTGCTGGACCAAGCCACACATACTGTAATACACTCTTCTGACCAAT	376
DB	56	ValGlyLeuLeuValGluProSerProHisThrValAsnThrLeuPheLeuThrAsn	75
OY	377	GACCTGACT	385
DB	76	AspLeuThr	78

Search completed: August 22, 2003, 14:32:24  
Job time : 112 secs